

Pub C27

16.

29. A method of producing a proton-gated cation channel, incubating the host cell of Claim 27 under conditions which allow the DNA sequence to be expressed, and isolating the protein from the host.

30. A method for screening compounds useful as proton-gated cation channel ligands, which comprises the steps of:

contacting a cell bearing at its surface a channel as defined in Claim 16 with said compounds; and

selecting the compounds that bind to said channel as ligands.

31. A method of screening compounds useful as proton-gated cation channel ligands, which comprises the steps of:

contacting a cell bearing at its surface a channel as defined in Claim 21 with said compounds; and

selecting the compounds that bind to said channel as ligands.

32. A composition or kit for screening compounds useful as proton-gated cation channel ligands, which comprises a cell population expressing a channel as defined in Claim 16 at its surface, and auxiliary components assisting the binding and the detection of the binding of said ligands to said channel.

33. A composition or kit for screening compounds useful as proton-gated cation channel ligands, which comprises a cell population expressing a channel as defined in Claim 21 at its surface, and auxiliary components assisting the binding and the detection of the binding of said ligands to said channel.--

Remarks

The above amendments are being made to eliminate multiple dependencies in the claims and incorporate new claims 16-33 into the application.

No fee is believed necessary to enter this amendment. However if a fee is necessary, please charge Deposit Account 17-0055.

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